

Figure 1

MFELFSWASSTTGSRYGSAFCGSPTLAWCVCPVCYGESRILRVKVVSG
 IDLAKKDI FGASDPYVKLSLYVADENRELALVQTKTIKKTLPKWNEEF
 ^^^
 YFFVNPSNHRLLFEVFDENRLTRDDFLGQVDVPLSHLPTEDPTMERPYT
 ^^^
 FKDFLLRPRSHKSRVKGFLRLKMAYMPKNGGQDEENSQDRDDMEHGWEV
 VDSNDSASQHQEELPPPLPPGWEEKVDNLGRTYYVNHNNRRTTQWHRPS

 LMDVSSESNNIRQINQEAHRRFRSRRHISEDLEPEPSEGGDVPEPWE
 *
 TISEEVNIAGDSLGVVLPPPPASPGSRTSPQELSEELSRRLQITPDSNG
 EQFSSLIQREPSSRLRSCSVTDAVAEQGHLPPPSVAYVHTTPGLPSGWE

 ERKDAKGRTYVNHNNRRTTTWTRPIMQLAEDGASGSATNSNNHLIEPQI

 RRPRSLSSPTVTLXAPLEGAKDSPVRRRAVKDTLSNPQSPQPSPYNSPKP
 QHKVTQSFLPPGWEMRIAPNGRPFFIDHNTKTTTWEDPRLKFPVHMRSK
 TSLNPNDLGPLPPGWEERIHLDGRTFYIDHNSKITQWEDPRLQNPAITG

 PAVPYSREFKQKYDYFRKKLKKPADIPNRFEMKLHRNNIFEESYRRIMS
 VKRPDVLKARLWIEFESEKGLDYGGVAREWFFLLSKEMFNPYYGLFEYS
 ATDNYTLQINPNSGLCNEDHLSYFTFIGRVAGLAVFHGKLDDGFFIRPF
 YKMLLGKQITLNDMESVDSEYYNSLKWILENDPTELDLMFCIDEENFGQ
 TYQVDLKPNGSEIMVTNENKREYIDLVIQWRFVNRVQKQMNAFLEGFTE
 LLPIDLIKIFDENELELLMCGLGDVDVNDWRQHSIYKNGYCPNHPVIOW
FWKAVLLMDAEKRIRLLOFVTGTSRVPMNGFAELYGSNGPOLFTIEQWG
SPEKLPRAHTCFNRLDLPPYETFEDLREKLLMAVENAQGFEGVD.

Figure 2a

1 S R F S S S S T V A C P G R G R A R P V C W K R S E M A - - T C A V E V F G L P46934
 1 - M F R L R S W A S S T T G S R Y G S A F C - G S P T L A W C V C V P V C Y G - ZGGBP-1
 39 L E D E E N S R I V R V R V I A G I G L A K K D I L G A S D P Y V R V T L Y D P P46934
 38 - - - - E S R I L R V K V V S G I D L A K K D I F G A S D P Y V K L S L Y V A ZGGBP-1
 79 M N G V - L T S V Q T K T I K K S L N P K K W N E E I L F R V H P Q Q H R R L L F E P46934
 73 D E N R E L A L V Q T K T I K K T L N P K K W N E E F Y F R V N P S N H R L L F E ZGGBP-1
 118 V F D E N R L T R D D F L G Q V D V P L Y P L P T E N P R L E R P Y T F K D F V P46934
 113 V F D E N R L T R D D F L G Q V D V P L S H L P T E D P T M E R P Y T F K D F L ZGGBP-1
 158 L H P R S H K S R V K G Y L R L K K M T Y L P K T S G S E D D N A E Q A E E L E P P46934
 153 L R P R S H K S R V K G F L R L K K M A Y M P K N G G Q D E E N S D Q R D D M E H ZGGBP-1
 198 G W V V L D Q P D A C H L Q Q Q Q E P S P L P P G W E E R Q D I L G R T Y Y V P46934
 193 G W E V V D S N D S A S Q H Q E E L P P P P L P P G W E E K V D N L G R T Y Y V ZGGBP-1
 238 N H E S R R T Q W K R P T P Q D N L T D A E N G N I Q L Q - - A Q R A F T T R P46934
 233 N H N N R T T Q W H R P S L M D V S S E S D N N I R Q I N Q E A A H R R P R S R ZGGBP-1
 275 R Q I S E - - E T E S V D N Q E S S E N W E I R E D E A T M Y S S Q A F P S P P46934
 273 R H I S E D L E P E P S E G G D V P P E P W E T I S E E V N I A G D S L G V V L P ZGGBP-1
 313 P P S S N L D V - - P T H L A E E L N A R L T I F G N S A V S Q P A S S N H P46934
 313 P P P A S P G S R T S P Q E L S E E L S R R L Q I T P D S N G E Q F S S L I Q R ZGGBP-1
 350 S S R - - R G S L Q A Y T F E E Q P T L P - - - V L L P T S S G L P P G W E P46934
 353 E P S S R L R S C S V T D A V A E Q G H L P P P S V A Y V H T T P G L P S G W E ZGGBP-1
 383 E K Q D E R G R S Y Y V D H N S R T T T W T K P T V Q - - - - - A T V E P46934
 393 E R K D A K G R T Y Y V N H N N R T T T W T R P I M Q L A E D G A S G S A T N S ZGGBP-1
 414 T S Q L T S S Q S S - - - - - A G P Q S Q A S T S D - - - - - P46934
 433 N N H L I E P Q I R R P R S L S S P T V T L X A P L E G A K D S P V R R A V K D ZGGBP-1

Figure 2b

435 - - S G Q Q V T Q P S - - - - - E I E Q G F L P K G W E V R H A P N G R P46934
 473 T L S N P Q S P Q S P Y N S P K P Q H K V T Q S F L P P G W E M R I A P N G R ZGGBP-1

464 P F F I D H N T K T T T W E D P R L K I P A H L R G K T S L D T S N D L G P L P P46934
 513 P F F I D H N T K T T T W E D P R L K P P V H M R S K T S L N - P N D L G P L P ZGGBP-1

504 P G W E E R T H T D G R I F Y I N H N I K R T Q W E D P R L E N V A I T G P A V P46934
 552 P G W E E R I H L D G R T F Y I D H N S K I T Q W E D P R L Q N P A I T G P A V ZGGBP-1

544 P Y S R D Y K R K Y E F P R R K L K K Q N D I P N K F E M K L R R A T V L E D S P46934
 592 P Y S R E F K Q K Y D Y P R K K L K K P A D I P N R F E M K L H R N N I F E E S ZGGBP-1

584 Y R R I M G V K R A D F L K A R L W I E F D G E K G L D Y G G V A R E W F F L I P46934
 632 Y R R I M S V K R P D V L K A R L W I E P E S E K G L D Y G G V A R E W F F L L ZGGBP-1

624 S K E M F N P Y Y G L F E Y S A T D N Y T L Q I N P N S G L C N E D H L S Y F K P46934
 672 S K E M P N P Y Y G L F E Y S A T D N Y T L Q I N P N S G L C N E D H L S Y F T ZGGBP-1

664 F I G R V A G M A V Y H G K L L D G F F I R P F Y K M M L H K P I T L H D M E S P46934
 712 F I G R V A G L A V F H G K L L D G F F I R P P Y K M M L G K Q I T L N D M E S ZGGBP-1

704 V D S E Y Y N S L R W I L E N D P T E L D L R F I I D E E L F G Q T H Q H E L K P46934
 752 V D S E Y Y N S L K W I L E N D P T E L D L M F C I D E E N F G Q T Y Q V D L K ZGGBP-1

744 N G G S E I V V T N K N K K E Y I Y L V I Q W R F V N R I Q K Q M A A F K E G P P46934
 792 P N G S E I M V T N E N K R E Y I D L V I Q W R F V N R V Q K Q M N A F L E G P ZGGBP-1

784 F E L I P I Q D I I K I P D E N E L E L L M C G L G D V D V N D W R E H T K Y K N P46934
 832 T E L L P I D L I K I F D E N E L E L L M C G L G D V D V N D W R Q H S I Y K N ZGGBP-1

824 G Y S A N H Q V I Q W F W K A V L M M D S E K R I R L L Q F V T G T S R V P M N P46934
 872 G Y C P N H P V I Q W F W K A V L L M D A E K R I R L L Q F V T G T S R V P M N ZGGBP-1

864 G F A E L Y G S N G P Q S F T V E Q W G T P E K L P R A H T C F N R L D L P P Y P46934
 912 G P A E L Y G S N G P Q L F T I E Q W G S P E K L P R A H T C F N R L D L P P Y ZGGBP-1

904 E S F E E L W D K L Q M A I E N T Q G F D G V - D P46934
 952 E T F E D L R E K L L M A V E N A Q G F E G V D - ZGGBP-1

Figure 3

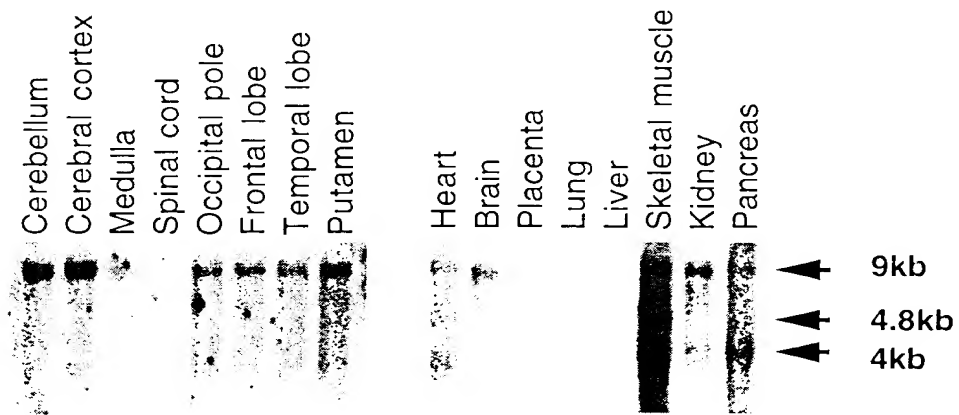


Figure 4a

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401	A	G	T	G	G	A	T	T	T	G	A	A	G	C	C	C	C	A	A	T	G	G	G	T	C	A	G	A	A	T	A	A	T	G	G	T	C	A	C			
425	A	A	T	G	A	G	A	A	C	A	A	C	G	A	G	A	A	T	A	C	A	T	T	G	A	C	T	T	A	G	T	C	A	T	C	C	A	G	T			
441	A	A	T	G	A	A	A	C	A	A	A	A	G	G	A	A	T	A	T	C	G	A	C	T	T	A	G	T	C	A	T	C	C	A	G	T						
465	G	G	A	G	A	T	T	T	G	T	G	A	A	C	A	G	G	G	T	C	C	A	G	A	A	A	G	C	A	A	T	G	A	A	T	G	C	C	T	T		
481	G	G	A	G	A	T	T	T	G	T	G	A	A	C	A	G	G	G	T	C	C	A	G	A	A	G	A	G	A	T	G	A	A	C	G	C	C	T	T			
505	C	T	T	G	G	A	G	G	A	T	T	A	C	A	G	A	A	C	T	T	C	C	A	A	T	C	G	A	C	T	T	G	A	T	T	G	A	T	T			
521	C	T	T	G	G	A	G	G	A	T	T	C	A	C	A	G	A	A	C	T	A	C	T	T	C	C	T	A	T	T	G	A	T	T	T	G	A	T	T			
545	A	A	A	A	T	T	T	G	A	T	G	A	A	A	A	A	T	G	A	G	C	T	G	G	A	G	T	T	G	C	T	G	A	T	G	T	G	C	G			
561	A	A	A	A	T	T	T	G	A	T	G	A	A	A	A	A	T	G	A	G	C	T	G	G	A	G	T	T	G	C	T	G	A	T	G	T	G	C	G			
585	G	C	C	T	T	G	G	T	G	A	T	G	T	C	G	A	C	G	T	G	A	A	C	G	A	C	T	G	G	A	G	A	C	A	G	C	A	C	T	C		
601	G	C	C	T	C	G	G	T	G	A	T	G	T	G	A	A	T	G	A	A	T	G	A	C	T	G	G	A	G	A	C	A	G	C	A	G	C	A	T	T	C	
625	T	A	T	T	T	A	C	A	A	G	A	A	C	G	G	C	T	A	C	T	G	C	C	C	A	A	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
641	T	A	T	T	T	A	C	A	A	G	A	A	C	G	G	C	T	A	C	T	G	C	C	C	A	A	C	C	C	C	C	C	C	C	C	C	C	C	C	C		
665	C	A	G	T	G	G	T	T	C	T	G	G	A	A	G	G	C	C	G	T	G	C	T	A	C	T	C	A	T	G	G	A	T	G	G	A	T	G	C	C	C	
681	C	A	G	T	G	G	T	T	C	T	G	G	A	A	G	G	C	T	G	T	G	C	T	A	C	T	C	A	T	G	G	A	C	G	C	C	C	C	C	C	C	
705	A	G	C	G	C	A	T	C	C	G	G	T	T	A	C	T	A	C	A	G	T	T	T	G	T	C	A	C	A	G	G	C	A	C	C	T	C	C	A	G		
721	A	G	C	G	T	A	T	C	C	G	G	T	T	A	C	T	G	C	A	G	T	T	T	G	T	C	A	C	A	G	G	A	C	A	T	C	G	C	C	G		
745	A	G	T	A	C	C	C	A	T	G	A	A	T	G	G	A	T	T	T	G	C	C	G	A	A	C	T	C	T	A	T	G	G	T	T	C	C	A	A	T		
761	A	G	T	A	C	C	T	A	T	C	C	G	A	T	T	T	G	C	C	G	A	A	C	T	T	A	T	G	T	T	C	C	A	A	T							
785	G	G	T	C	C	T	C	A	G	C	T	G	T	T	T	A	C	A	A	T	A	G	A	G	C	A	A	T	G	G	G	C	A	G	T	C	C	-	G			
801	G	G	T	C	C	T	C	A	G	C	T	G	T	T	T	A	C	A	A	T	A	G	A	G	C	A	A	T	G	G	G	C	A	G	T	C	C	-	G			
824	A	A	A	A	C	T	A	C	C	-	A	G	A	G	C	T	C	-	T	A	C	A	T	G	C	T	T	-	A	A	T	C	G	C								
841	A	G	A	A	A	C	T	G	C	C	C	A	G	A	G	C	T	C	A	C	A	T	G	C	T	T	T	A	A	T	C	G	C	C	T	T	G					
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Figure 5a

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1  C G G - - - - - T A - - - T C A G C A G A G G - - - - - Pub-3.seq
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16  - - - - - T G T G T - - - - - A C G G G C A C T G Pub-3.seq
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31  C T T T - - - A A A C T G G G A A G G A - - - - - Pub-3.seq
81  A T T C A T C A A G G G T G G C A A G G A T C G C C T G G T C G A C G G T C A ZGGBP1.seq

51  - - - - - - - - - - - - - - - - - - - - - - - - - - - Pub-3.seq
121 G G T C G T C C T C G A C G C G G T T G C C C T C C T C G T C C T G T T C C A G ZGGBP1.seq

53  G A C G A G - - - - - - - - - - - - - - - - - - - - - Pub-3.seq
161 G G T G A G T G G G C G A T A C C A G G T G T C C A C C G G A A G T A C G G ZGGBP1.seq

68  - - - - - - - - - - - - - - - - - - - - - - - - - - - Pub-3.seq
201 C C C G A C A C C T C G A C A A T C G G C G C A T C G T C G A G T G C T T G G ZGGBP1.seq

74  - - - - - - - - - - - - - - - - - - - - - - - - - - - Pub-3.seq
241 A A A G C G C T C C A G G T C G A T G G T G G C C G A G T G A T G A T G A C ZGGBP1.seq

90  T T C C A G - - - - - C A G C G C - - - - - - - - - - - T A G Pub-3.seq
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105 T C C A G C T G A A - - - C A C T T T C A G - - - - - C C T Pub-3.seq
321 C C G A G C A G G A G T C G A T G T T C A G G C T G C G T T C G T G G C T T ZGGBP1.seq

128 T G T T - - - - - - - - - - - - - - - - - - - - - Pub-3.seq
361 C G T C G A C G A C A G G C T C G C G T A T G G C T C C G C T T C T G C G G ZGGBP1.seq

141 C T T T - - - - - - - - - - - - - - - - - - - - - Pub-3.seq
401 C T C T C C T A C C C T G G C A T G G T G T G T G T G C C T G T G T G C ZGGBP1.seq

145  - - - - - - - - - - - - - - - - - - - - - - - - - - - Pub-3.seq
441 T A C G G A G A G T C C C G T A T T C T C A G A G T A A A G T T G T Y T C T G ZGGBP1.seq

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157	- - - - -	GAATWGA	CTCGC	CAAA	AAAGG	ACATCT	TTGGAG	CCAGTGA	AGTGA	Pub-3.seq
481										ZGGBP1.seq
162		TCCGTA	TGTGA	AAC	CTTT	CAATT	TGTAC	GTAAGCG	ATGAGAA	Pub-3.seq
521		TCCGTA	TGTGA	AAC	CTTT	CAATT	TGTAC	GTAAGCG	ATGAGAA	ZGGBP1.seq
202		AGAAAC	TTGCT	TTTGG	TCCAG	ACAA	AAACAA	TTAA	AAAGA	Pub-3.seq
561		AGAAAC	TTGCT	TTTGG	TCCAG	ACAA	AAACAA	TTAA	AAAGA	ZGGBP1.seq
242		CAC	TGA	ACCC	CAAA	ATGGA	ATGA	AGAA	TTTCA	Pub-3.seq
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641		AAAC	CACT	ATA	TCAC	AGACT	CTCT	ATTTGA	AGTAT	ZGGBP1.seq
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681		GAAA	ATAG	ACTG	ACAC	GAGAC	GGCT	TCCTGG	CCAGGTG	ZGGBP1.seq
362		ACGT	GCCC	CTTAG	TCAC	CTTCC	GACAG	AGATCC	AACCAT	Pub-3.seq
721		ACGT	GCCC	CTTAG	TCAC	CTTCC	GACAG	AGATCC	AACCAT	ZGGBP1.seq
402		GGAG	CGAC	CCCTA	TACAT	TTAAG	GACTT	CTCTC	CTCAGACCA	Pub-3.seq
761		GGAG	CGAC	CCCTA	TACAT	TTAAG	GACTT	CTCTC	CTCAGACCA	ZGGBP1.seq
442		AGAA	GTCAT	AAAG	TCTCG	AGTTA	AGGG	ATTTT	TGCGGAT	Pub-3.seq
801		AGAA	GTCAT	AAAG	TCTCG	AGTTA	AGGG	ATTTT	TGCGGAT	ZGGBP1.seq
482		AAAT	GCCC	CTATA	TGCC	AA	AAATGG	AGGTCA	AGATGA	Pub-3.seq
841		AAAT	GCCC	CTATA	TGCC	AA	AAATGG	AGGTCA	AGATGA	ZGGBP1.seq
522		AAAC	AGTG	AC	CAGAG	GGATG	ACATGG	AGGTCA	AGATGA	Pub-3.seq
881		AAAC	AGTG	AC	CAGAG	GGATG	ACATGG	AGGTCA	AGATGA	ZGGBP1.seq
562		GTGT	TGAC	TCA	AAATG	ACTCG	GCTTCT	CAGCA	CCAAAG	Pub-3.seq
921		GTGT	TGAC	TCA	AAATG	ACTCG	GCTTCT	CAGCA	CCAAAG	ZGGBP1.seq

Figure 5c

602	A A C T T C C C T C C C T C C C T C C C T C T G C C T C C C G G G T G G A A G A A A A	Pub-3.seq
961	A A C T T C C C T C C C T C C C T C T G C C T C C C G G G T G G A A G A A A A	ZGGBP1.seq
642	A G T G G A C A A T T A G G C C C G A A C T T A C T A T G T C A A C C A C A A C	Pub-3.seq
1001	A G T G G A C A A T T A G G C C C G A A C T T A C T A T G T C A A C C A C A A C	ZGGBP1.seq
682	A A C C G G A C C A C T C A G T G G C A C A G A C C A A G C C T G A T G G A C G	Pub-3.seq
1041	A A C C G G A C C A C T C A G T G G C A C A G A C C A A G C C T G A T G G A C G	ZGGBP1.seq
722	T G T C C T C G G A G T C G G A C A A T A A C A T C A G A C A G A T C A A C C A	Pub-3.seq
1081	T G T C C T C G G A G T C G G A C A A T A A C A T C A G A C A G A T C A A C C A	ZGGBP1.seq
762	G G A G G C A G C A C A C C G G C G C T T C C G C T C C C G C A G G C A C A T C	Pub-3.seq
1121	G G A G G C A G C A C A C C G G C G C T T C C G C T C C C G C A G G C A C A T C	ZGGBP1.seq
802	A G C G A A G A C T T G G A G C C C G A G C C C T C G G A G G C G G G A T G	Pub-3.seq
1161	A G C G A A G A C T T G G A G C C C G A G C C C T C G G A G G C G G G A T G	ZGGBP1.seq
842	T C C C C G A G C C T T G G G A G A C C A T T C A G A G G A A G T G A A T A T	Pub-3.seq
1201	T C C C C G A G C C T T G G G A G A C C A T T C A G A G G A A G T G A A T A T	ZGGBP1.seq
882	C G C T G G A G A C T C T C G G T C T G G C T C T G C C C C C A C C A C C G	Pub-3.seq
1241	C G C T G G A G A C T C T C G G T C T G G T T T G C C C C C A C C A C C G	ZGGBP1.seq
922	G T C T C C C C A G G A T C T C G G A C C A G C C C T C A G G A G C T G T C A G	Pub-3.seq
1281	G T C T C C C C A G G A T C T C G G A C C A G C C C T C A G G A G C T G T C A G	ZGGBP1.seq
962	A G G A A C T A A G C A G A A G G C T T C A G A T C A C T C C A G A C T C C A A	Pub-3.seq
1321	A G G A A C T A A G C A G A A G G C T T C A G A T C A C T C C A G A C T C C A A	ZGGBP1.seq
1002	T G G G A A C A G T T C A G C T C T T T G A T T C A A A G A G A A C C C T C C	Pub-3.seq
1361	T G G G A A C A G T T C A G C T C T T T G A T T C A A A G A G A A C C C T C C	ZGGBP1.seq
1042	T C A A G G T T G A G G T C A T G C A G T G T C A C C G A C G C A G T T G C A G	Pub-3.seq
1401	T C A A G G T T G A G G T C A T G C A G T G T C A C C G A C G C A G T T G C A G	ZGGBP1.seq
1082	A A C A G G G C C A T C T A C C A C C G C C A T C A G T G C C C T A T G T A C A	Pub-3.seq
1441	A A C A G G G C C A T C T A C C A C C G C C A T C A G T G C C C T A T G T A C A	ZGGBP1.seq

Figure 5d

1122	T A C C A C G C C G G G T C T G C C T T C A G G C T G G A A G A A A A A	Pub-3.seq
1481	T A C C A C G C C G G G T C T G C C T T C A G G C T G G A A G A A A A A	ZGGBP1.seq
1162	G A T G C T A A G G G G C G C A C A T A C T A T G T C A A T C A T A A C A A T C	Pub-3.seq
1521	G A T G C T A A G G G G C G C A C A T A C T A T G T C A A T C A T A A C A A T C	ZGGBP1.seq
1202	G A A C C A C A A C T T G G A C T C G A C C T A T C A T G C A G C T T G C A G A	Pub-3.seq
1561	G A A C C A C A A C T T G G A C T C G A C C T A T C A T G C A G C T T G C A G A	ZGGBP1.seq
1242	A G A T G G T G C G T C C G G A T C A G C C A C A A C A A C A A C C A T	Pub-3.seq
1601	A G A T G G T G C G T C C G G A T C A G C C A C A A C A A C A A C C A T	ZGGBP1.seq
1282	C T A A T C G A G C C T C A G A T C C G C C G G C C T C G T A G C C T C A G C T	Pub-3.seq
1641	C T A A T C G A G C C T C A G A T C C G C C G G C C T C G T A G C C T C A G C T	ZGGBP1.seq
1322	C G C C A A C A G T A A C T T T A T C T G C C C C G C T G G A G G G T G C C A A	Pub-3.seq
1681	C G C C A A C A G T A A C T T T A T T G C C C C G C T G G A G G G T G C C A A	ZGGBP1.seq
1362	G A C T C A C C C G T A C G T C G G G C T G T G A A A G A C A C C C T T C C	Pub-3.seq
1721	G A C T C A C C C G T A C G T C G G G C T G T G A A A G A C A C C C T T C C	ZGGBP1.seq
1402	A A C C C A C A G T C C C C A C A G C C A T C A C C T T A C A A C T C C C C A	Pub-3.seq
1761	A A C C C A C A G T C C C C A C A G C C A T C A C C T T A C A A C T C C C C A	ZGGBP1.seq
1442	A A C C A C A C A C A A A G T C A C A C A G A G C T T C T T G C C A C C C G G	Pub-3.seq
1801	A A C C A C A C A C A A A G T C A C A C A G A G C T T C T T G C C A C C C G G	ZGGBP1.seq
1482	C T G G G A A A T G A G G A T A G C G C C A A C G G C C G G C C C T T C T T C	Pub-3.seq
1841	C T G G G A A A T G A G G A T A G C G C C A A C G G C C G G C C C T T C T T C	ZGGBP1.seq
1522	A T T G A T C A T A A C A C A A G A C A C A A C C T G G G A A G A T C C A C	Pub-3.seq
1881	A T T G A T C A T A A C A C A A G A C T A C A A C C T G G G A A G A T C C A C	ZGGBP1.seq

Figure 5e

1562	G T T T G A A A A T T T C C A G T A C A T A T G C G G T C A A A G A C A T C T T T	Pub-3.seq
1571	G T T T G A A A A T T T C C A G T A C A T A T G C G G T C A A A G A C A T C T T T	ZGGBP1.seq
1602	A A A C C C C C A A T G A C C C T T G G C C C C C T T C C C T C C T G G C T G G G A A	Pub-3.seq
1611	A A A C C C C C A A T G A C C C T T G G C C C C C T T C C C T C C T G G C T G G G A A	ZGGBP1.seq
1642	G A A A G A A T T C A C T T G G A T G G C C C G A A C G T T T T A T A T T G A T C	Pub-3.seq
2001	G A A A G A A T T C A C T T G G A T G G C C C G A A C G T T T T A T A T T G A T C	ZGGBP1.seq
1682	A T A A T A G C A A A A T T A C T C A G T G G G A A G A C C C A A G A C T G C A	Pub-3.seq
2041	A T A A T A G C A A A A T T A C T C A G T G G G A A G A C C C A A G A C T G C A	ZGGBP1.seq
1722	G A A C C C A G C T A T T A C T G G T C C G G C T G T C C C T T A C T C C A G A	Pub-3.seq
2081	G A A C C C A G C T A T T A C T G G T C C G G C T G T C C C T T A C T C C A G A	ZGGBP1.seq
1762	G A A T T T A A G C A G A A A T A T G A C T A C T T C A G G A A G A A A T T A A	Pub-3.seq
2121	G A A T T T A A G C A G A A A T A T G A C T A C T T C A G G A A G A A A T T A A	ZGGBP1.seq
1802	A G A A A C C T G C T G A T A T C C C C A A T A G G T T T G A A A T G A A A C T	Pub-3.seq
2161	A G A A A C C T G C T G A T A T C C C C A A T A G G T T T G A A A T G A A A C T	ZGGBP1.seq
1842	T C A C A G A A A T A A C A T A T T T G A A G A G T C C T A T C G G A G A A T T	Pub-3.seq
2201	T C A C A G A A A T A A C A T A T T T G A A G A G T C C T A T C G G A G A A T T	ZGGBP1.seq
1882	A T G T C C G T G A A A A G A C C A G A T G T C C T A A A A G C T A G A C T G T	Pub-3.seq
2241	A T G T C C G T G A A A A G A C C A G A T G T C C T A A A A G C T A G A C T G T	ZGGBP1.seq
1922	G G A T T G A G T T T G A A T C A G A G A A A G G T C T T G A C T A T G G G G G	Pub-3.seq
2281	G G A T T G A G T T T G A A T C A G A G A A A G G T C T T G A C T A T G G G G G	ZGGBP1.seq
1962	T G T G G C C A G A G A A T G G T T C T T C T T A C T G T C C A A A G A G A T G	Pub-3.seq
2321	T G T G G C C A G A G A A T G G T T C T T C T T A C T G T C C A A A G A G A T G	ZGGBP1.seq
2002	T T C A A C C C C T A C T A C G G C C C T T T G A G T A C T C T G C C A C G G	Pub-3.seq
2361	T T C A A C C C C T A C T A C G G C C C T T T G A G T A C T C T G C C A C G G	ZGGBP1.seq
2042	A C A A C T A C A C C C T T C A G A T C A A C C C T A A T T C A G G C C T C T G	Pub-3.seq
2401	A C A A C T A C A C C C T T C A G A T C A A C C C T A A T T C A G G C C T C T G	ZGGBP1.seq

Figure 5f

2082	T A A T G A G G A T C A T T T G T C C T A C T T C A C T T T T A T T G G A A G A	Pub-3.seq
2441	T A A T G A G G A T C A T T T G T C C T A C T T C A C T T T T A T T G G A A G A	ZGGBP1.seq
2122	G T T G C T G G T C T G G C C G T A T T T C A T G G G A A G C T C T T A G A T G	Pub-3.seq
2481	G T T G C T G G T C T G G C C G T A T T T C A T G G G A A G C T C T T A G A T G	ZGGBP1.seq
2162	G T T T C T T C A T T A G A C C A T T T T A C A A G A T G A T G T T G G G A A A	Pub-3.seq
2521	G T T T C T T C A T T A G A C C A T T T T A C A A G A T G A T G T T G G G A A A	ZGGBP1.seq
2202	G C A G A T A A C C C T G A A T G A C A T G G A A T C T G T G G A A T G A C C C T A	Pub-3.seq
2561	G C A G A T A A C C C T G A A T G A C A T G G A A T C T G T G G A A T G A C C C T A	ZGGBP1.seq
2242	T A T T A C A A C T C T T T G A A A T G G A T C C T G G A G A A T G A C C C T A	Pub-3.seq
2601	T A T T A C A A C T C T T T G A A A T G G A T C C T G G A G A A T G A C C C T A	ZGGBP1.seq
2282	C T G A G C T G G A C C T C A T G T T C T G C A T A G A C G A A G A A A C T T	Pub-3.seq
2641	C T G A G C T G G A C C T C A T G T T C T G C A T A G A C G A A G A A A C T T	ZGGBP1.seq
2322	T G G A C A G A C A T A T C A A G T G G A T T T G A A G C C C A A T G G G T C A	Pub-3.seq
2681	T G G A C A G A C A T A T C A A G T G G A T T T G A A G C C C A A T G G G T C A	ZGGBP1.seq
2362	G A A A T A A T G G T C A C A A A T G A A A C A A A A G G A A T A T A T C G	Pub-3.seq
2721	G A A A T A A T G G T C A C A A A T G A A A C A A A A G G A A T A T A T C G	ZGGBP1.seq
2402	A C T T A G T C A T C C A G T G G A G A T T T G T G A C A C A G G T C C A G A A	Pub-3.seq
2761	A C T T A G T C A T C C A G T G G A G A T T T G T G A C A C A G G T C C A G A A	ZGGBP1.seq
2442	G C A G A T G A A C G C C T T C T T G G A G G A T T C A C A G A A C T A C T T	Pub-3.seq
2801	G C A G A T G A A C G C C T T C T T G G A G G A T T C A C A G A A C T A C T T	ZGGBP1.seq
2482	C C T A T T G A T T T G A T T A A A A T T T T T G A T G A A A T G A G C T G G	Pub-3.seq
2841	C C T A T T G A T T T G A T T A A A A T T T T T G A T G A A A T G A G C T G G	ZGGBP1.seq

Figure 5g

2522	AGTTGCTCATGTGCGGCCCTCGGGTGA	Pub-3.seq
2881	AGTTGCTCATGTGCGGCCCTCGGGTGA	ZGGBP1.seq
2562	CTGGAGACAGCATTCCTATTACAAGAACGGCTACTGCCCA	Pub-3.seq
2921	CTGGAGACAGCATTCCTATTACAAGAACGGCTACTGCCCA	ZGGBP1.seq
2602	AACCAACCCCGTCATTTCAGTGGTTCTGGAAGGCTGTGCTAC	Pub-3.seq
2961	AACCAACCCCGTCATTTCAGTGGTTCTGGAAGGCTGTGCTAC	ZGGBP1.seq
2642	TCAATGGACGCCGGAAGCGGTATCCGGTTACTGCAAGTTTGT	Pub-3.seq
3001	TCAATGGACGCCGGAAGCGGTATCCGGTTACTGCAAGTTTGT	ZGGBP1.seq
2682	CACAGGGACATCGCGAGTACCTATGAATGGATTTGCCGAA	Pub-3.seq
3041	CACAGGGACATCGCGAGTACCTATGAATGGATTTGCCGAA	ZGGBP1.seq
2722	CTTTATGGTTCCCAATGGTCCCTCAGCTGTTTACAATAGAGC	Pub-3.seq
3081	CTTTATGGTTCCCAATGGTCCCTCAGCTGTTTACAATAGAGC	ZGGBP1.seq
2762	AAATGGGGCAGTCCCTGAGAAACTCCCCAGAGCTCACACATG	Pub-3.seq
3121	AAATGGGGCAGTCCCTGAGAAACTCCCCAGAGCTCACACATG	ZGGBP1.seq
2802	CTTTAATCGCCCTTGACTTACCTCCATATGAACCTTTGA	Pub-3.seq
3161	CTTTAATCGCCCTTGACTTACCTCCATATGAACCTTTGA	ZGGBP1.seq
2842	GATTTACGAGAGAAACTTCTCATGGCCCGTGGAATAATGCTC	Pub-3.seq
3201	GATTTACGAGAGAAACTTCTCATGGCCCGTGGAATAATGCTC	ZGGBP1.seq
2882	AAGGATTTGAAGGGGTGGAATTAAGCAACCTGTGCCCTCGGG	Pub-3.seq
3241	AAGGATTTGAAGGGGTGGAATTAAGCAACCTGTGCCCTCGGG	ZGGBP1.seq
2922	GGTGGTTGTTCTTCAAGCAAGTTCTGCTTGCACTTTTGCA	Pub-3.seq
3281	GGTGGTTGTTCTTCAAGCAAGTTCTGCTTGCACTTTTGCA	ZGGBP1.seq
2962	TTTGCCCTAACAGACTTTTGCAAGGCGGATGGCAGAGAGCA	Pub-3.seq
3321	TTTGCCCTAACAGACTTTTGCAAGGCGGATGGCAGAGAGCA	ZGGBP1.seq
3002	GCTGCAGGCAATGGTCCCTGGAGCCGAGCCTTCAACCGCA	Pub-3.seq
3361	GCTGCAGGCAATGGTCCCTGGAGCCGAGCCTTCAACCGCA	ZGGBP1.seq

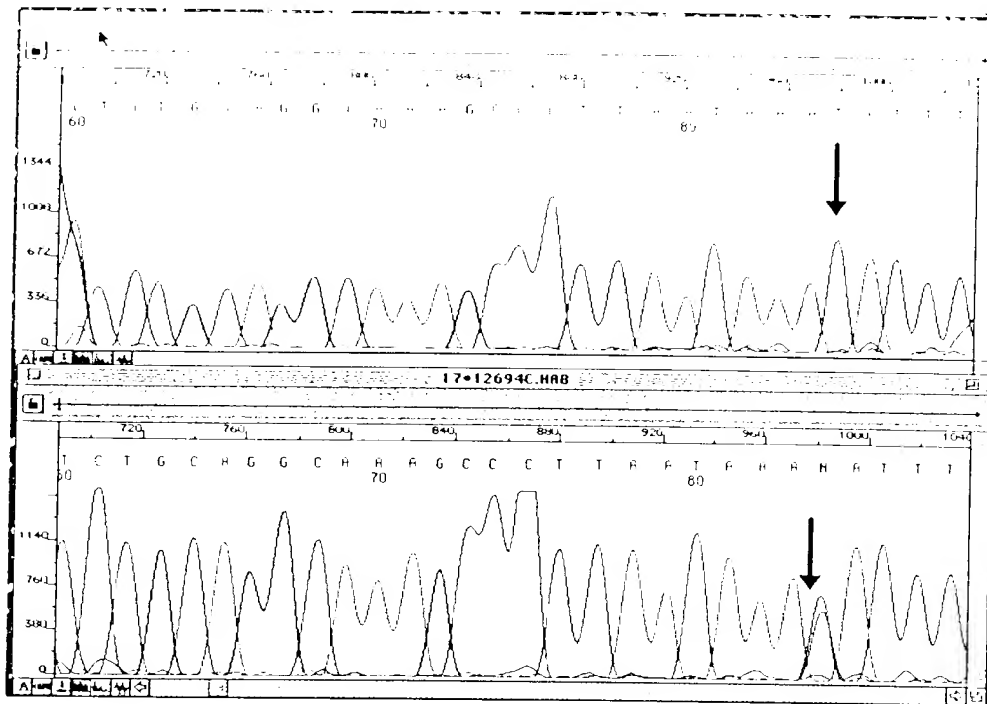
3208	- - - - -	A G A C A A G T A C T T T G A G A G A A T T T C C A A T A T A A T A T T A G A C		Pub-3.seq ZGGBP1.seq
3840	- - - - -	A T A A T G A T A A T T T T T C C A T A C T C A G A A T G A A A A C T G G A		Pub-3.seq ZGGBP1.seq
3208	- - - - -	T A T T A C G T T T T G T T T T G G G G T T T T T T T G T A C A A T T T A G		Pub-3.seq ZGGBP1.seq
3920	- - - - -	C T A A T A G C T A C A G G C T G A G A G A A T T G T A A C A T A G C A T G A C		Pub-3.seq ZGGBP1.seq
3214	- - - - -	A A A T T T T G T G T T G A C T T G A A A G G A A T C A C A C C A T T A T T C C I		Pub-3.seq ZGGBP1.seq
4000	- - - - -	T T A G A A G T A A T T A C A T G T G T T C T A A C A C A T T T G A G A C A G G		Pub-3.seq ZGGBP1.seq
3214	- - - - -	G T T G G A C T C C C A T T T C T C A T C C G A G A A A T T A C T T A A C C C T		Pub-3.seq ZGGBP1.seq
4080	- - - - -	T C C T G G G C G C T G T A C A G T C A T C T T T A T T C T A T T T C C C T C T		Pub-3.seq ZGGBP1.seq
3214	- - - - -	T T G C T G T T T G T A G T A G A G A C A T T T T G A A T G A A A C T T G G C A		Pub-3.seq ZGGBP1.seq
4160	- - - - -	C T G C T T G A T T C A A A C T G T G G A A C C A G A T C T G T T T A G T C		Pub-3.seq ZGGBP1.seq
3214	- - - - -	T C C T G T T T G T A T G C G T T T G C T A A T G G T A G C T A A A T A A C C A		Pub-3.seq ZGGBP1.seq
4240	- - - - -	G T T T T T G T T A A A T G C A C C A A T T C T G A A G G C A C T T T A T G		Pub-3.seq ZGGBP1.seq
3214	- - - - -	T A C T A C A T G G A G G T C A T A T C T G G T T T T G T T T T A T T T T T		Pub-3.seq ZGGBP1.seq
4280	- - - - -			
4320	- - - - -			

3214	- - - - -	TATCATGAACATTAAATGATGATTTCTTTCCCTG	Pub-3.seq ZGGBP1.seq
4360	- - - - -	CACACAATCTTTCGGTGCAATACTATCAATTGTGAATCT	Pub-3.seq ZGGBP1.seq
3214	- - - - -	G G C T G C T G G T G T A T A A A A C C T G G A T G T A A A G C T G A G C C T	Pub-3.seq ZGGBP1.seq
4400	- - - - -	A C A G A C C T G T C C T C A C C A A C T G T T T T G T G A T T T C T A C T C A	Pub-3.seq ZGGBP1.seq
3214	- - - - -	A C T A C A A A G A T T T A T T A A T G T A C T C T T A A T C T A A C T G A G	Pub-3.seq ZGGBP1.seq
4520	- - - - -	T T T T G T T A C C A A T G A C C T G T T G C A T G C T T C A A T A C C G T G T	Pub-3.seq ZGGBP1.seq
3214	- - - - -	A C T G C C T G A G T T G T G C C T C T T G T G T G C T A G A T T A A A G T G	Pub-3.seq ZGGBP1.seq
4600	- - - - -	A G A C A G A G A C T T G A C T T G A T C C T C T G A G C C T C A A G C T A T T	Pub-3.seq ZGGBP1.seq
3214	- - - - -	G A G C T G G T A G T G G C A G A G G A C T G A G G G T A C C T G C A C A G T T	Pub-3.seq ZGGBP1.seq
4680	- - - - -	T G A T T C T T T C C C A C G T T G T A A G T C T C C A T T G C A G A A T T G	Pub-3.seq ZGGBP1.seq
3214	- - - - -	T C G T G C G T T T G A G A A A C A C C T G A G G C A G T G T G G G A G T T G	Pub-3.seq ZGGBP1.seq
4760	- - - - -		

[illegible]

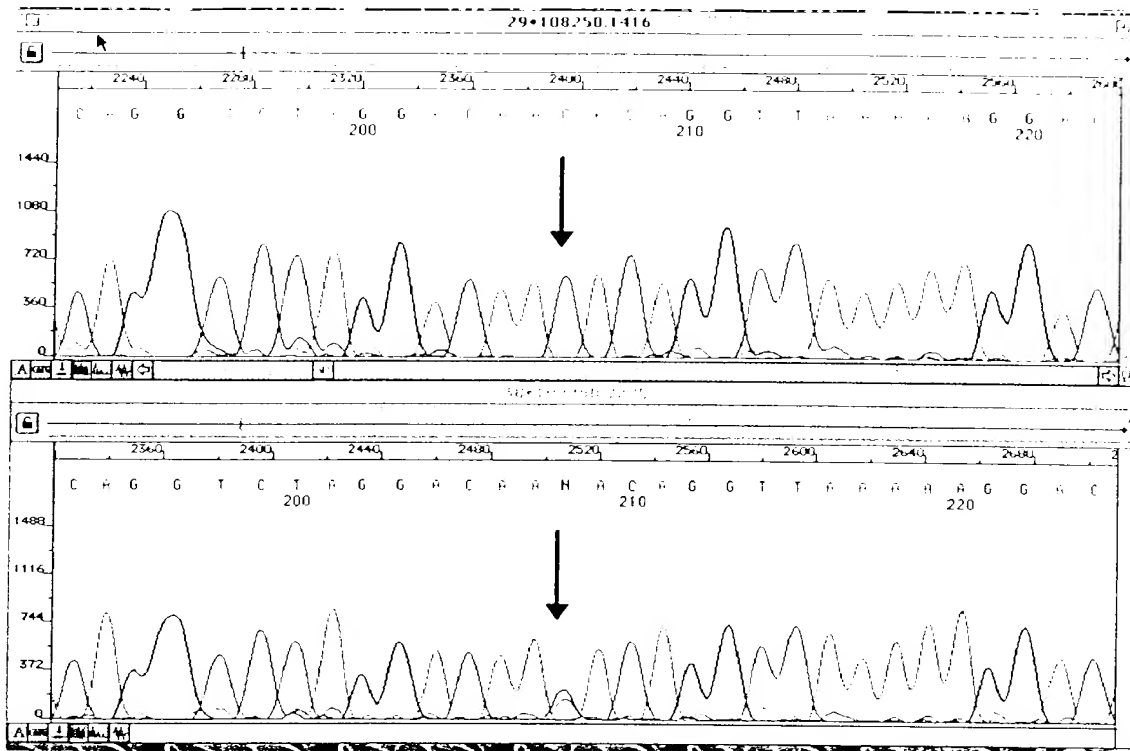
Decoration 'Decoration #1': Box residues that match the Consensus exactly.

Figure 6

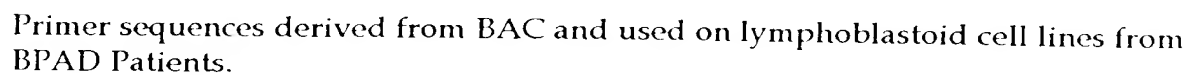


Wild Type (human foetal brain)	T/T
Variant Type (human adult brain)	T/C
Polymorphism Position	3554
RFLP	-

Figure 7



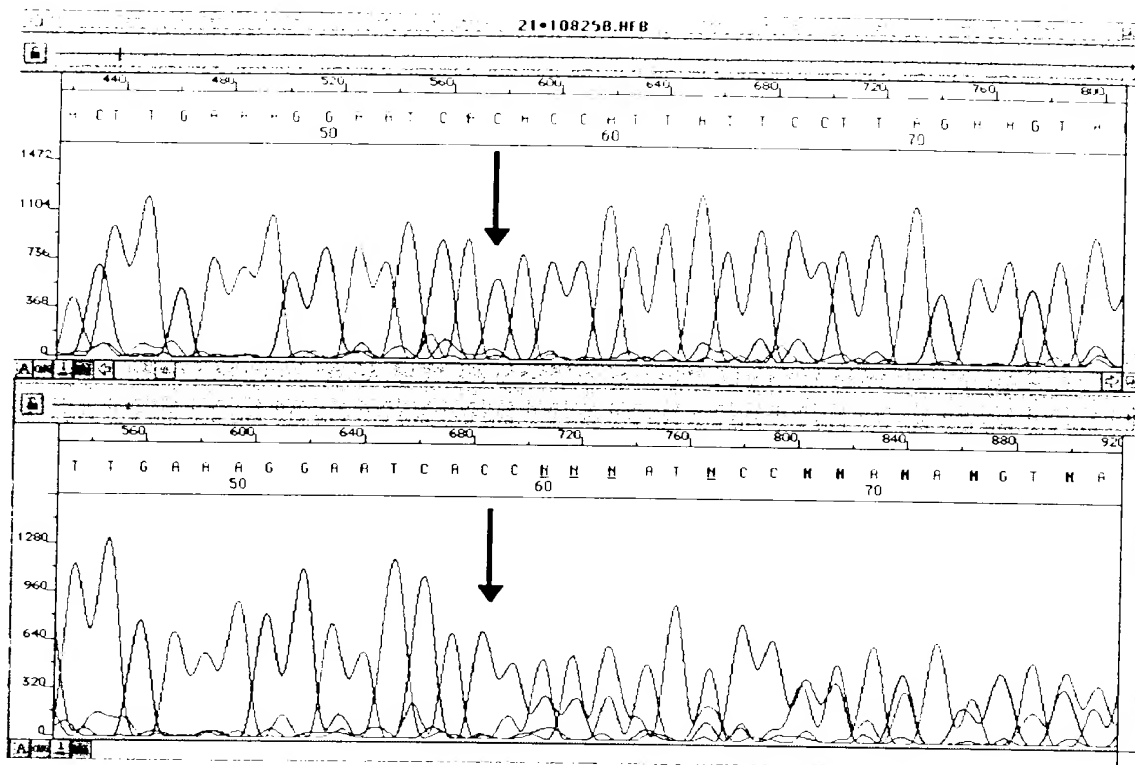
Wild Type (GM1416)	C/C
Variant (7225)	C/G
Position	4828



Homozygous variant (KK232) - C/C

Tetranucleotide repeat underlined

Figure 10



Top electropherogram (human foetal brain) - wild type

Lower electropherogram (7225) - heterozygous variant

Arrow indicates the position of the C+C insertion - position 4032